

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/001610

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 F04D 29/54

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 F04D. F28F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KR JP : IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,398,492 B1 (Halla Climate Control Corp.) 04 JUNE 2002 See the whole document	1-7
A	JP 10-205497 A (Zexel Corp.) 04 AUGUST 1998 See the whole document	1-4
A	US 4,548,548 A (Airflow Research and Manufacturing Corp.) 22 OCTOBER 1985 See the whole document	1
A	JP 02-196197 A (Daikinind Ltd.) 02 AUGUST 1990 See the whole document	1-4

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

11 OCTOBER 2004 (11.10.2004)

Date of mailing of the international search report

11 OCTOBER 2004 (11.10.2004)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Authorized officer

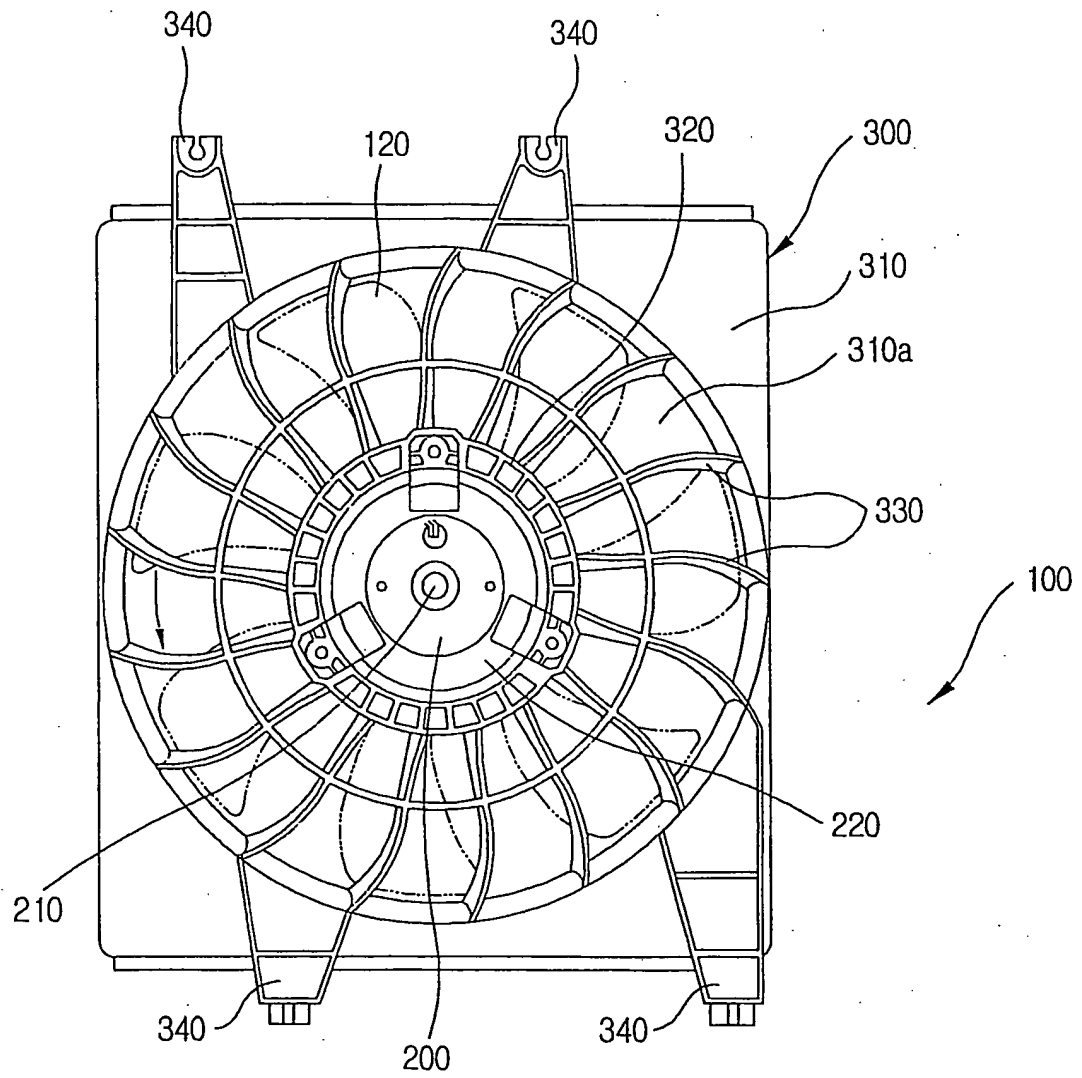
PARK, Jong Joo



Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6,398,492 B1	04-06-2002	KR 2000047329 A	25-07-2000
		EP 1016790 A2	05-07-2000
		EP 1016790 A3	02-05-2001
		JP 2000205194 A2	25-07-2000
		JP 3385336 B2	10-03-2003
JP 10-205497 A	04-08-1998	DE 19751042 A1	28-05-1998
		DE 19751042 C2	25-04-2000
		US 6024536 A	15-02-2000
US 4,548,548 A	22-10-1985	WO 8505408 A1	05-12-1985
		EP 183787 B1	14-08-1991
		AT 66284 E	15-08-1991
		DE 3583795 C0	19-09-1991
		JP 61502267 T2	09-10-1986
JP 02-196197 A	02-08-1990	NONE	

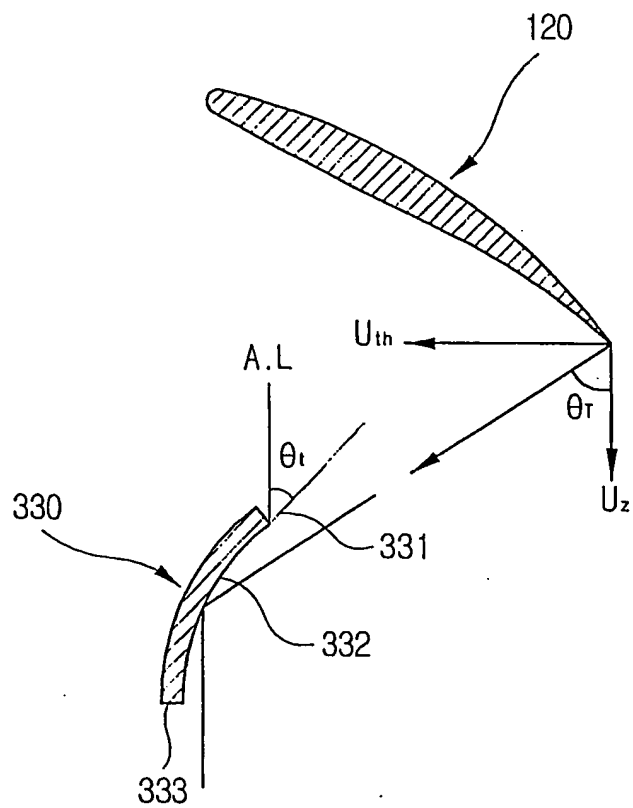
1/9

Figure 1



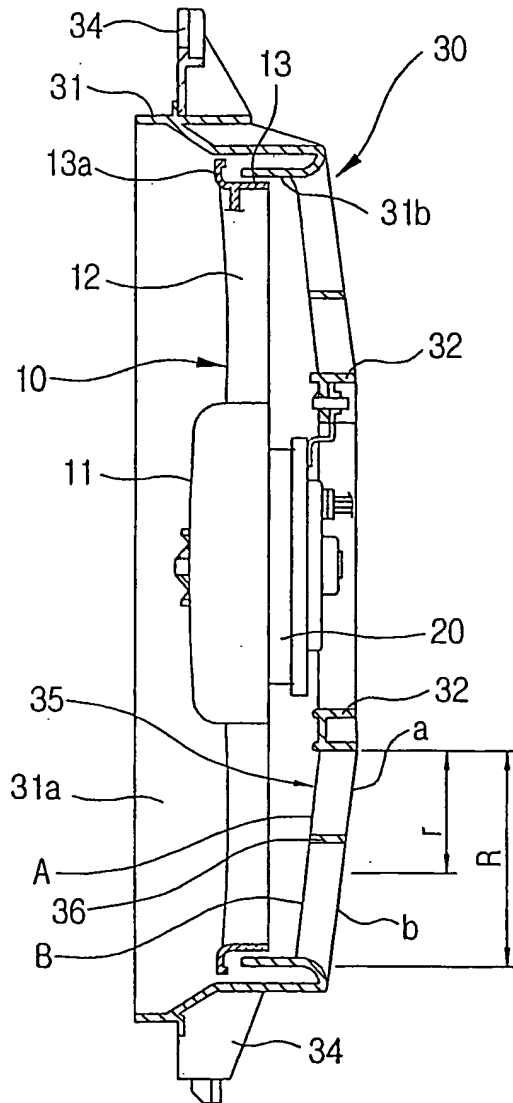
2/9

Figure 2



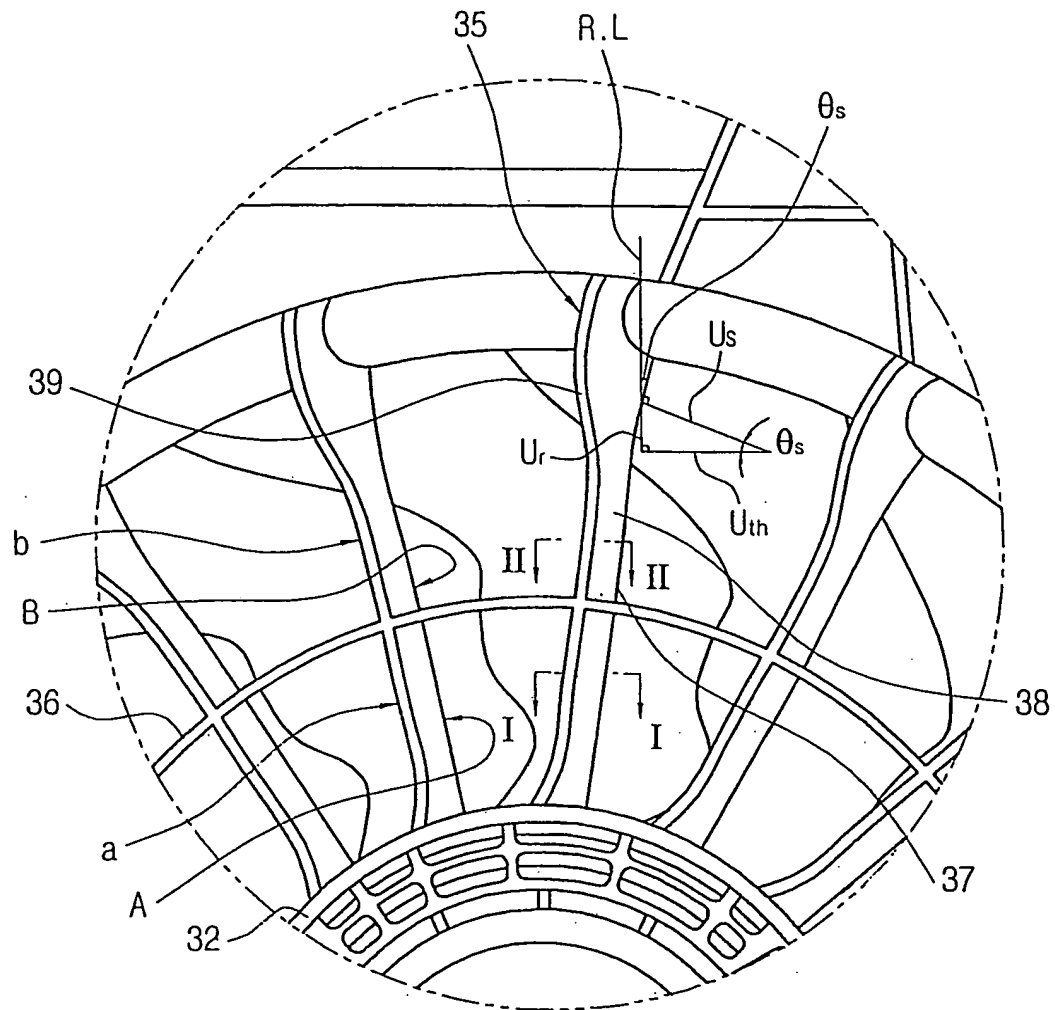
4/9

Figure 4



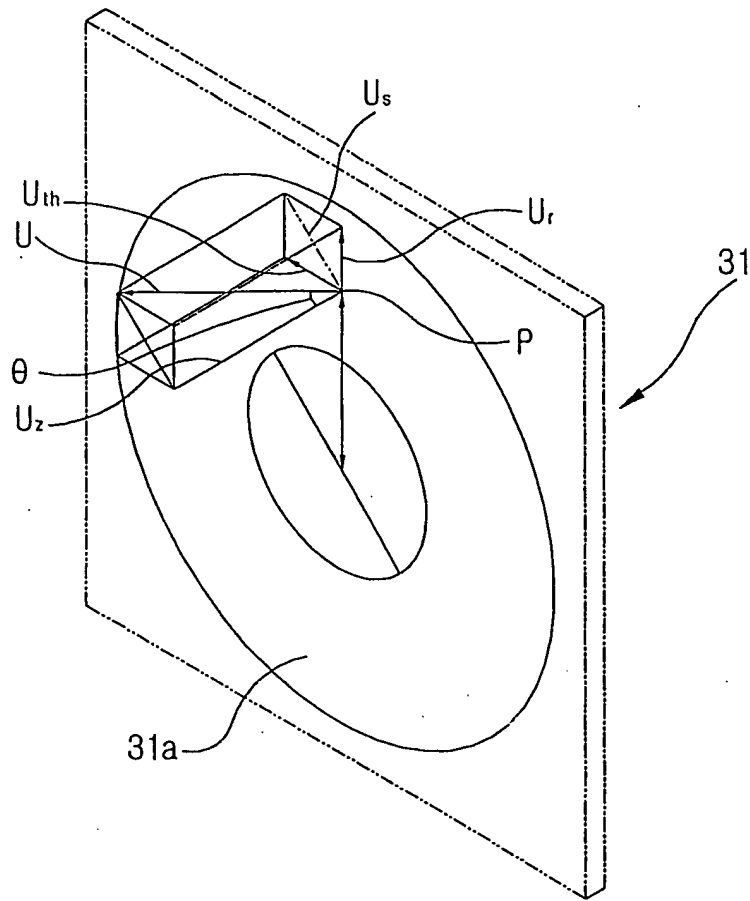
5/9

Figure 5



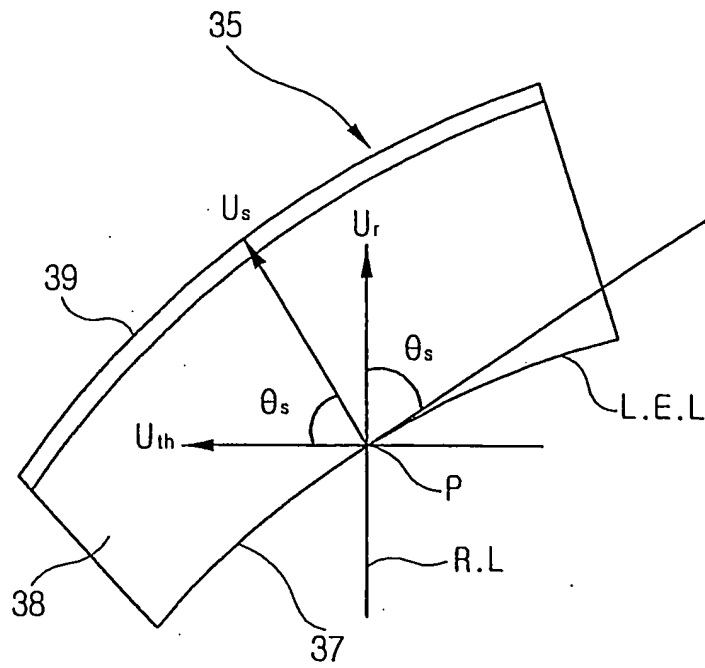
6/9

Figure 6



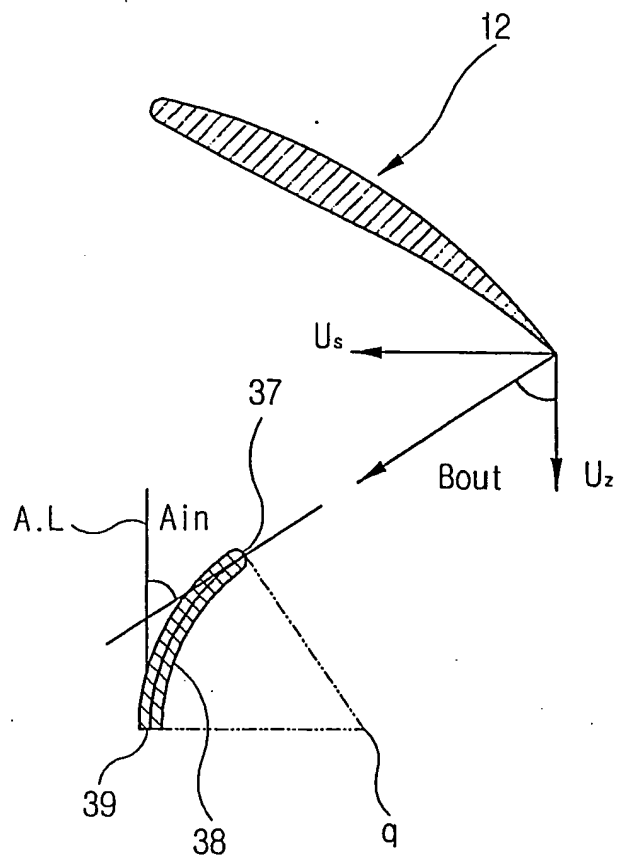
7/9

Figure 7



8/9

Figure 8



9/9

Figure 9

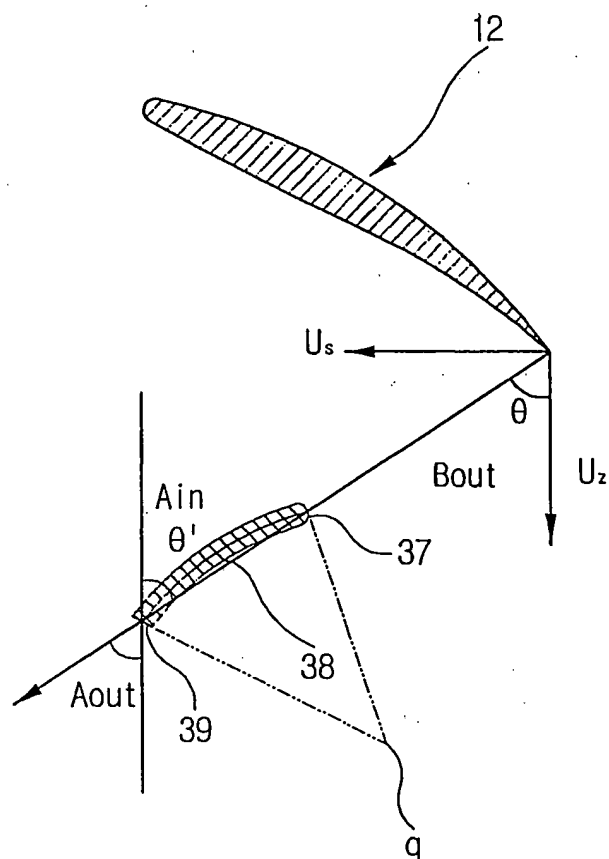


Figure 10

